

# Status of Puget Sound steelhead

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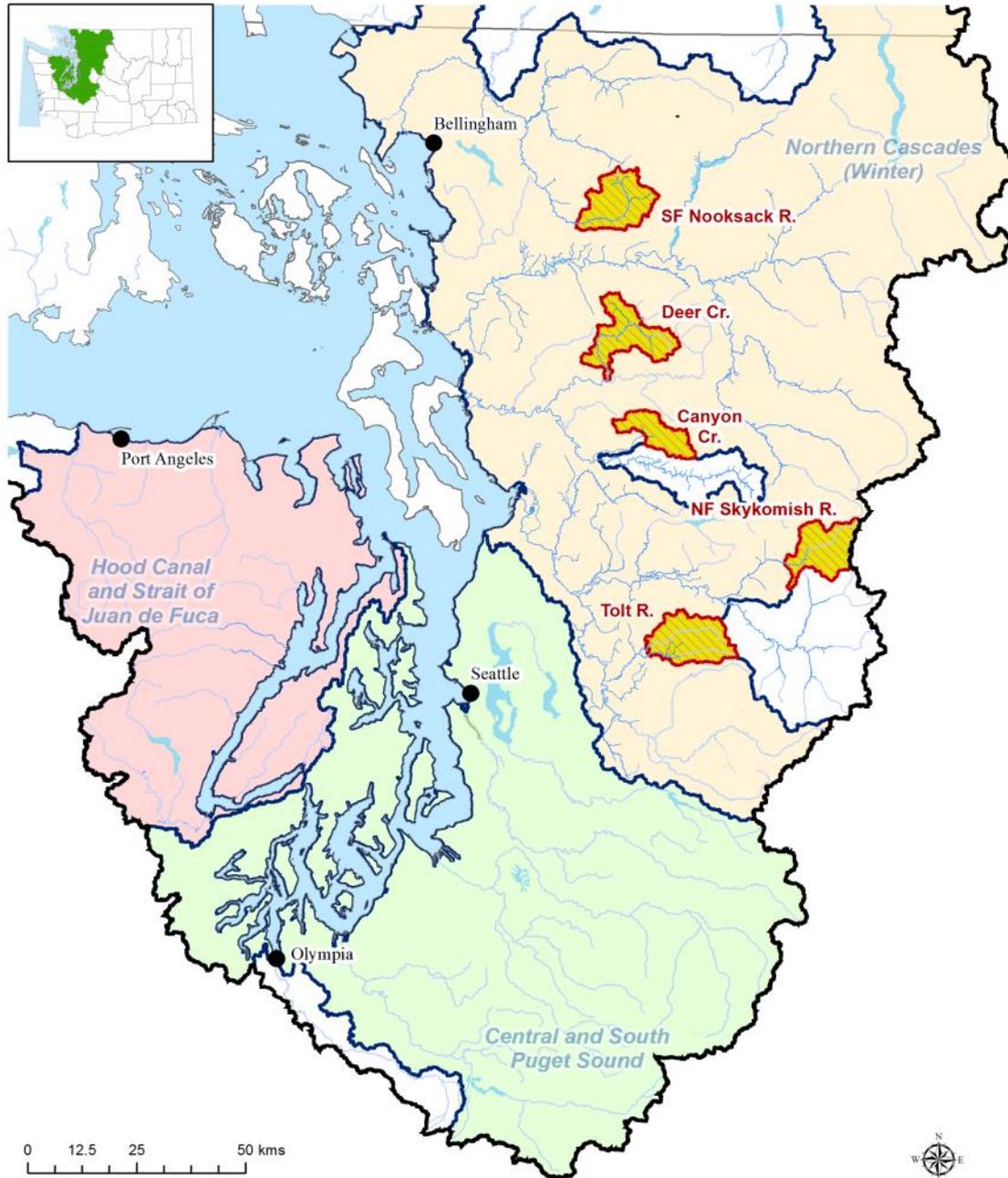


Puget Sound Wild Steelhead Management Zones  
Educational Workshop  
Seattle, WA  
July 13, 2015

# Puget Sound DPS: Major Population Groups



# Puget Sound DPS: Summer Steelhead Populations

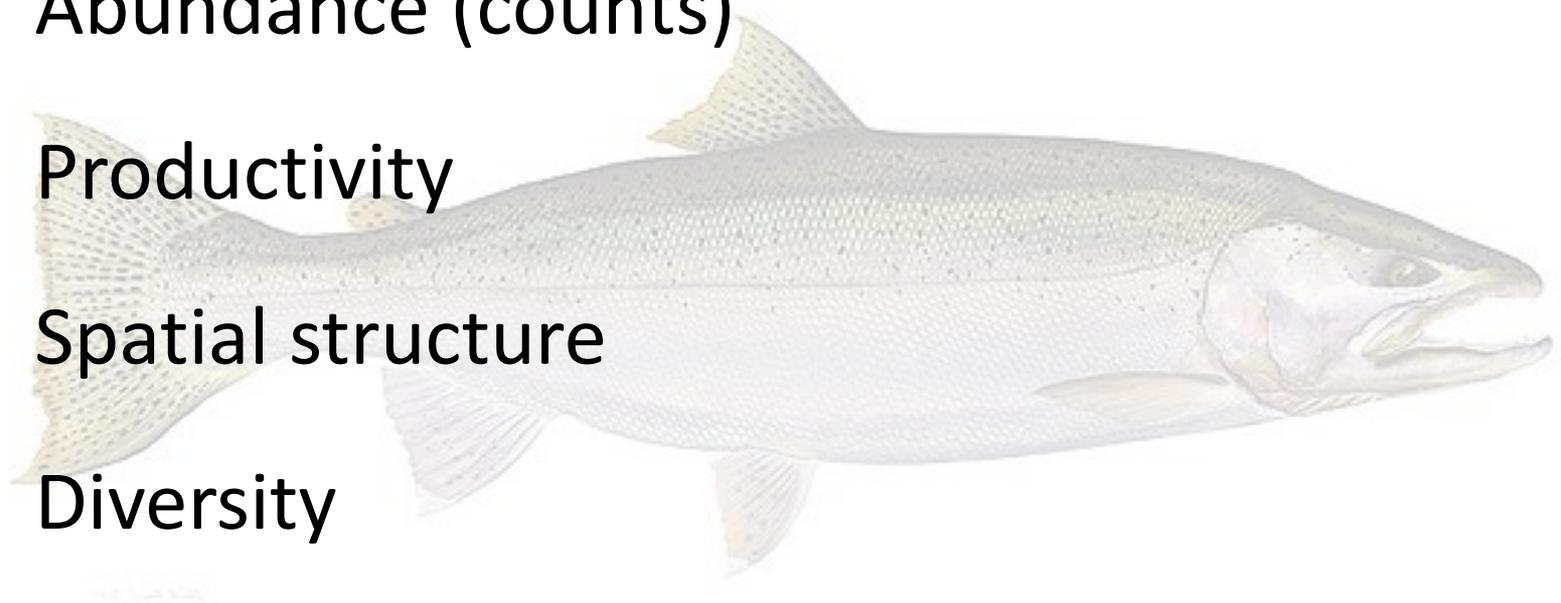


# Puget Sound DPS: Winter Steelhead Populations



# Viable Salmonid Population indicators

- Abundance (counts)
- Productivity
- Spatial structure
- Diversity



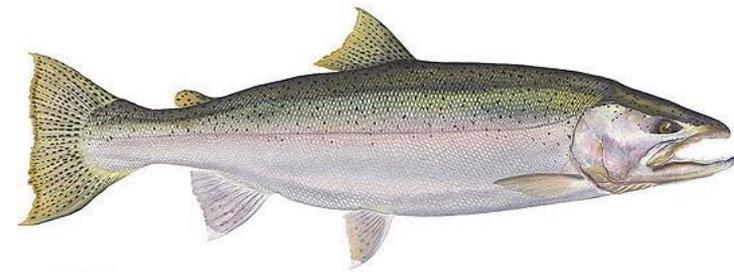
NOAA Technical Memorandum NMFS-NWFSC-42  
**Viable Salmonid Populations and the Recovery of  
Evolutionarily Significant Units**

June 2000

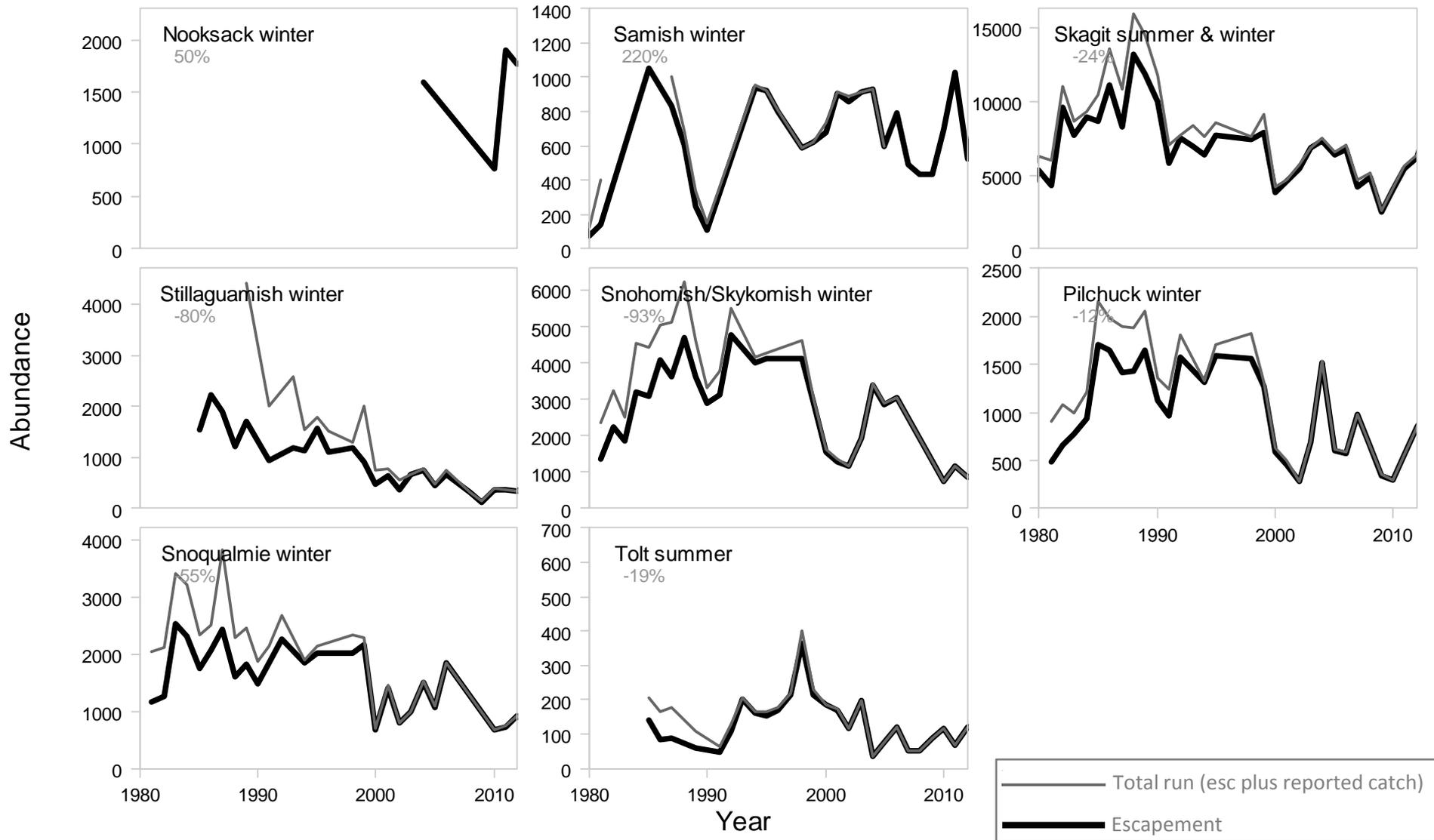
**Paul McElhaney and others**

# Viable Salmonid Population indicators

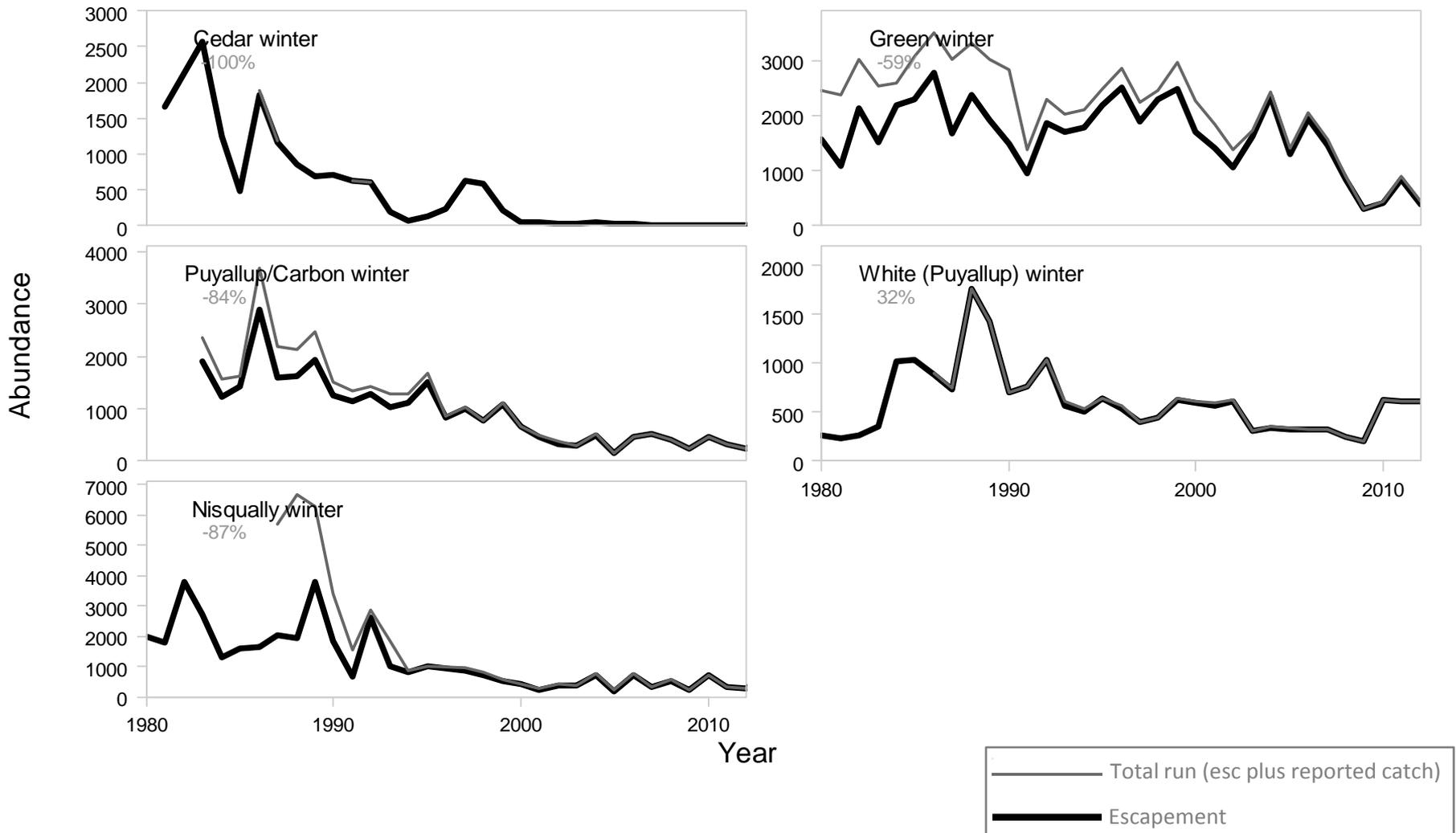
- Abundance
- Productivity
- Spatial structure
- Diversity



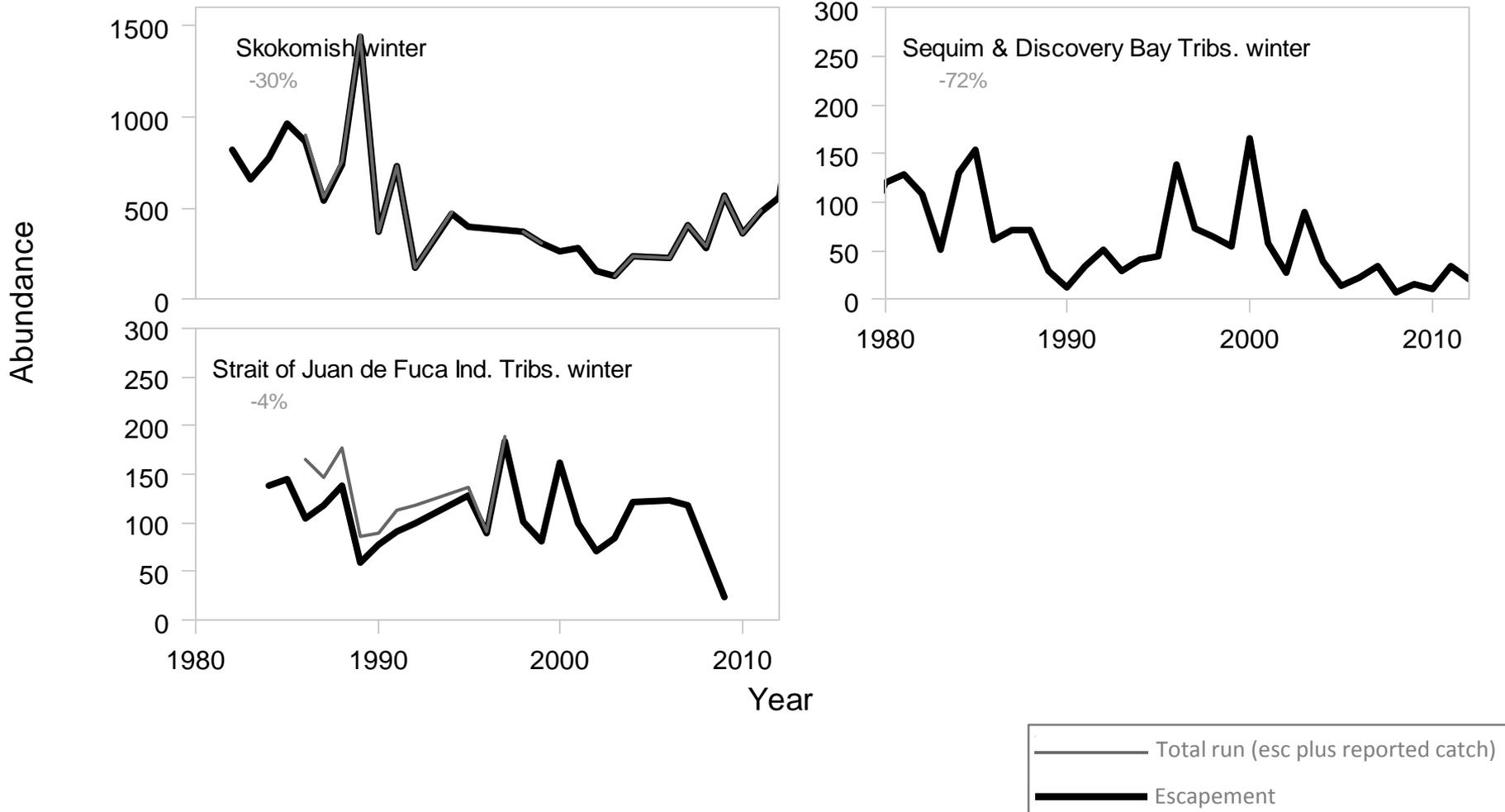
# Population abundance data— Northern Cascades MPG



# Population abundance data— Central and South Puget Sound MPG

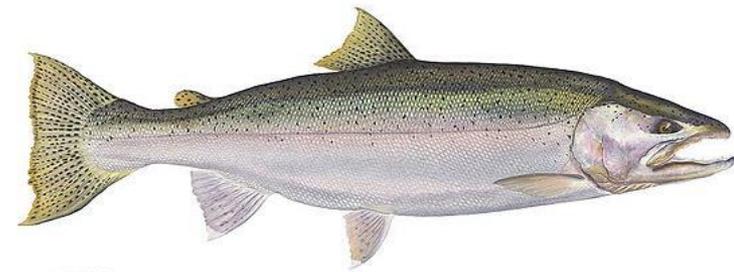


# Population abundance data— Hood Canal and Strait of Juan de Fuca MPG

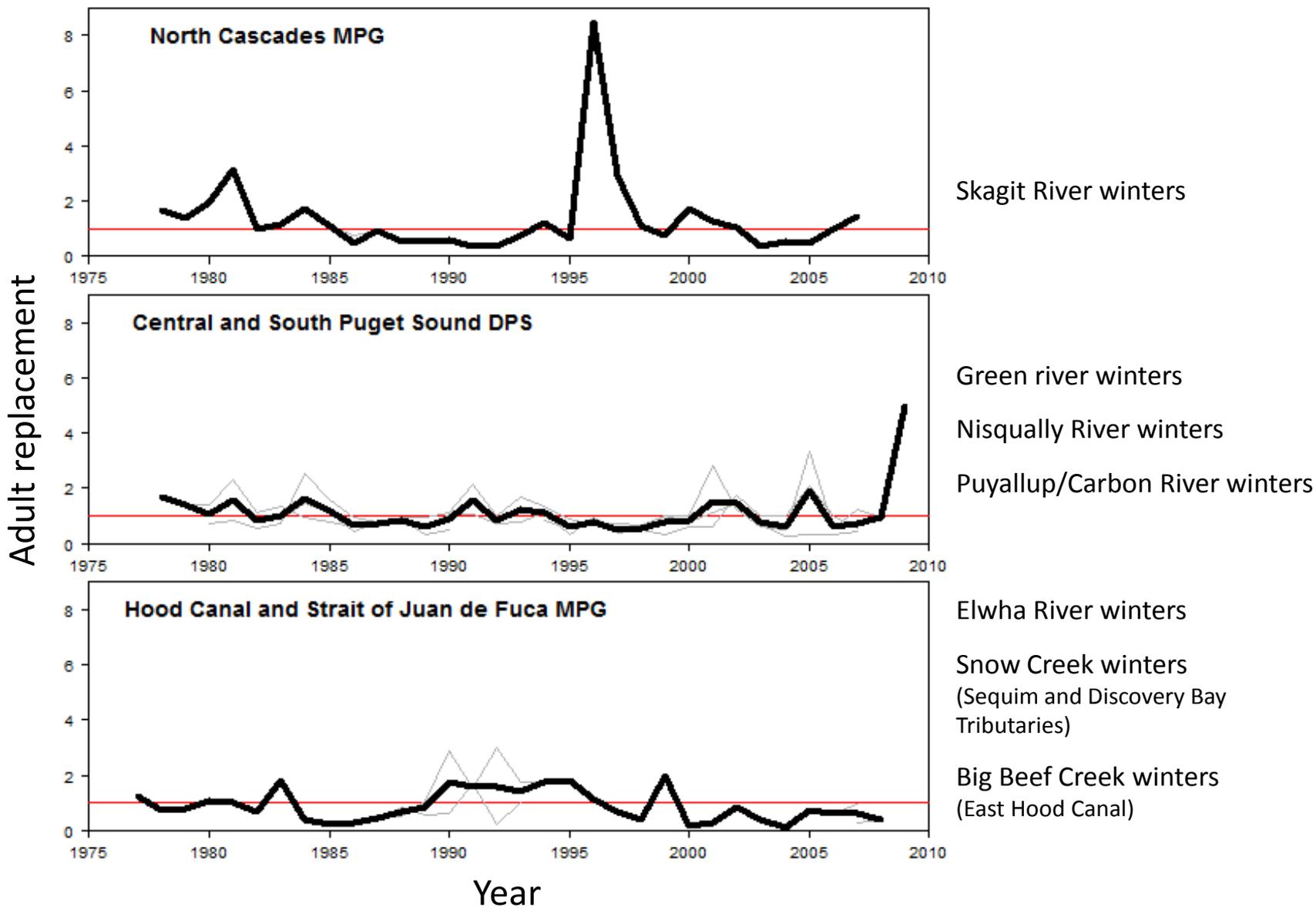


# Viable Salmonid Population indicators

- Abundance
- **Productivity**
- Spatial structure
- Diversity

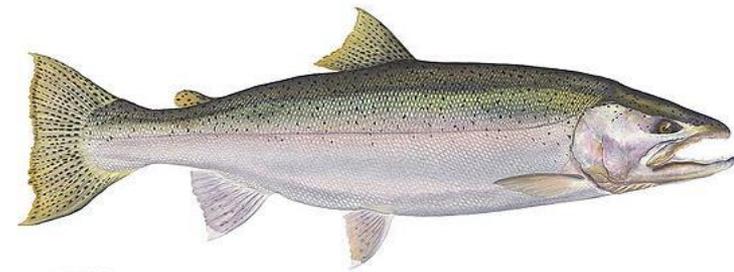


# Adults per adult: replacement



# Viable Salmonid Population indicators

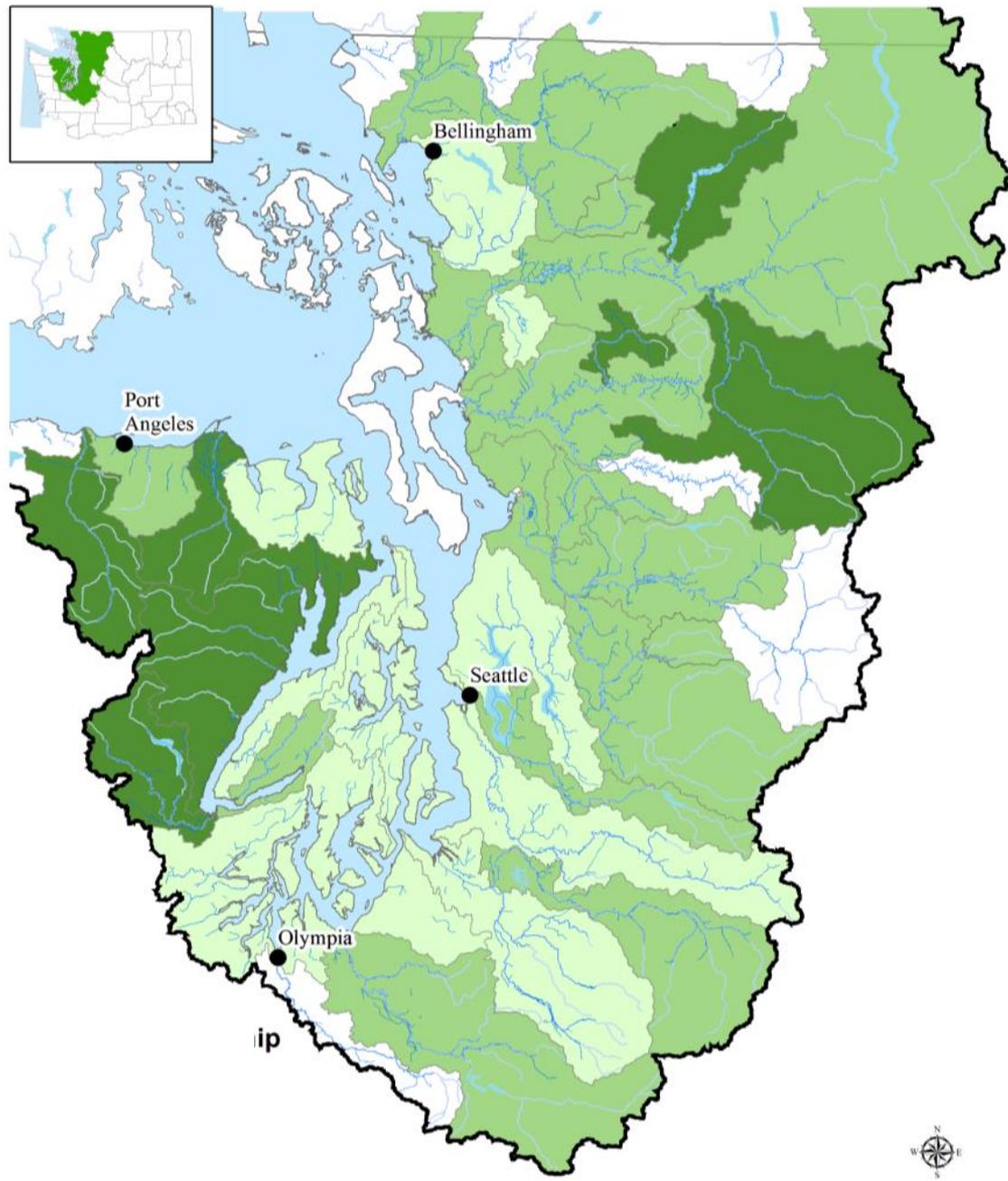
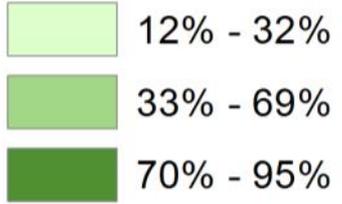
- Abundance
- Productivity
- **Spatial structure**
- Diversity



# Spatial structure indicators

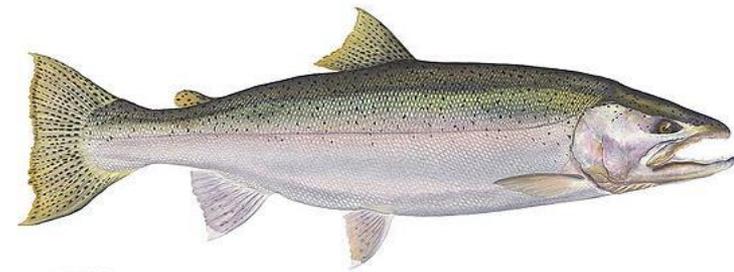
- Public land ownership and habitat protection

# % Public Ownership



# Viable Salmonid Population indicators

- Abundance
- Productivity
- Spatial structure
- **Diversity**



# Diversity

- Life history
- River basin hydrology

# Life history characteristics

- Summer vs. winter run timing



# River basin hydrology

- Highland



# River basin hydrology

- Lowland



# River basin hydrology

- Rain dominated



# River basin hydrology

- Snow dominated



# River basin hydrology

- Rain/snow dominated



Questions?